## **AMENDMENTS TO THE CLAIMS:**

1.-216. (Cancelled)

217. (Currently Amended) A spinal implant, comprising:

an elongate bone portion <u>formed from a cross-sectional bone slice taken from a</u>
<u>diaphysis of a long bone having an outer cortical bone wall surrounding an inner medullary</u>
canal, said elongate bone portion having a longitudinal axis and including:

- a first end portion;
- a second end portion arranged generally opposite said first end portion;
- a first bone engaging surface;
- a second bone engaging surface arranged generally opposite said first bone engaging surface;

a first sidewall extending between said first and second bone engaging surfaces and including a recessed area disposed between said first and second end portions, said recessed area defined by a partial portion of the medullary canal of the long bone and defining a concave outer surface extending along said longitudinal axis between said first and second end portions from said first bone engaging surface to said second bone engaging surface; and

a second sidewall arranged generally opposite said first sidewall relative to said longitudinal axis, said second sidewall extending between said first and second bone engaging surfaces and including a convex outer surface extending along said longitudinal axis between said first and second end portions from said first bone engaging surface to said second bone engaging surface; and

wherein said concave outer surface of said first sidewall extends generally parallel with and is positioned opposite said convex outer surface of said second sidewall to provide said elongate bone portion with an elongate crescent-shaped outer cross-section in a plane including said longitudinal axis.

218. (Currently Amended) A system including a pair of <u>the</u> spinal implants <u>of</u> <u>claim 217 formed of bone, each comprising:</u>

a first end-portion;

a second end portion arranged generally opposite said first end portion;

a first bone engaging surface;

a second bone engaging surface arranged generally opposite said first bone engaging

surface;

a first sidewall extending between said first and second bone engaging surfaces and

including a concave surface extending along said longitudinal axis between said first and

second-end-portions; and

a second sidewall arranged generally opposite said first sidewall and including a

convex surface extending along said longitudinal axis between said first and second end

portions wherein said pair of spinal implants includes a first implant and a second implant,

said first and second implants positioned adjacent one another with said concave outer surface

of said first implant facing said concave outer surface of said second implant with said

concave outer surfaces defining a chamber therebetween.

219. (New) The system of claim 218 further comprising an osteogenic material

disposed within said chamber defined between said concave outer surfaces of said first and

second implants.

220. (New) The system of claim 218 wherein said first and second implants are

positioned such that said longitudinal axis of said first implant lies at an angle oblique angle

relative to said longitudinal axis of said second implant.

221. (New) The implant of claim 217 wherein said elongate bone portion has a

generally rectangular cross-section in a plane including the longitudinal axis.

222. (New) The implant of claim 217 wherein each of said first and second bone

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engaging surfaces is substantially planar.

223. (New) The implant of claim 222 wherein each of said first and second bone

engaging surfaces includes ridges or teeth.

224. (New) The implant of claim 222 wherein each of said first and second bone

engaging surfaces is crescent-shaped.

225. (New) The implant of claim 217 wherein said first and second bone engaging

surfaces are separated by a first height adjacent said first end portion and by a second height

adjacent said second end portion, wherein said first height is greater than the second height.

226. (New) The implant of claim 217 further comprising a first endwall

extending between said first and second bone engaging surfaces, wherein said first

endwall includes one or more engagement features adapted to engage an implant holder.

227. (New) The implant of claim 226 wherein said engagement features

comprise a recess or a projection configured to engage the implant holder.

228. (New) The implant of claim 226 wherein said engagement features comprise

an opening extending through said first endwall to said concave outer surface of said first

sidewall.

229. (New) The implant of claim 228 wherein said opening is threaded.

230. (New) A spinal implant, comprising:

an elongate bone portion formed from a cross-sectional bone slice taken from a

diaphysis of a long bone having an outer cortical bone wall surrounding an inner medullary

canal, said elongate bone portion having a longitudinal axis and including:

a first end portion;

a second end portion arranged generally opposite said first end portion;

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a first bone engaging surface;

a second bone engaging surface arranged generally opposite said first bone

engaging surface;

a first sidewall extending between said first and second bone engaging surfaces

and including a recessed area disposed between said first and second end portions, said

recessed area defined by a partial portion of the medullary canal of the long bone and defining

a concave outer surface extending along said longitudinal axis between said first and second

end portions from said first bone engaging surface to said second bone engaging surface; and

a second sidewall arranged generally opposite said first sidewall relative to

said longitudinal axis, said second sidewall extending between said first and second bone

engaging surfaces and including a substantially planar outer surface extending along said

longitudinal axis between said first and second end portions from said first bone engaging

surface to said second bone engaging surface; and

wherein said concave outer surface defined by said first sidewall is

positioned opposite said substantially planar outer surface of said second sidewall relative

to said longitudinal axis.

231. (New) The implant of claim 230 wherein said first sidewall includes:

a first substantially planar outer surface adjacent said first end portion and a second

substantially planar outer surface adjacent said second end portion, each of said first and

second substantially planar outer surfaces extending between said first and second bone

engaging surfaces; and

wherein said concave outer surface extends axially between said first and second

substantially planar outer surfaces.

232. (New) The implant of claim 230 wherein said elongate bone portion has a

generally rectangular cross-section in a plane including the longitudinal axis.

233. (New) The implant of claim 230 wherein each of said first and second bone

engaging surfaces is substantially planar.

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234. (New) The implant of claim 233 wherein each of said first and second bone

engaging surfaces includes ridges or teeth.

235. (New) The implant of claim 230 wherein said first and second bone engaging

surfaces are separated by a first height adjacent said first end portion and by a second height

adjacent said second end portion, wherein said first height is greater than the second height.

236. (New) The implant of claim 230 further comprising a first endwall

extending between said first and second bone engaging surfaces, wherein said first

endwall includes one or more engagement features adapted to engage an implant holder.

237. (New) The implant of claim 236 wherein said engagement features

comprise a recess or a projection configured to engage the implant holder.

238. (New) The implant of claim 236 wherein said engagement features comprise

an opening extending through said first endwall to said concave outer surface of said first

sidewall.

239. (New) The implant of claim 238 wherein said opening is threaded.

240. (New) A method of forming a spinal implant, comprising:

providing a long bone having a diaphysis;

removing a cross-sectional bone slice from the diaphysis of the long bone, the

cross-sectional bone slice including an outer cortical bone wall surrounding an inner

medullary canal having a length;

cutting the bone slice along the length of the medullary canal and dividing the

bone slice into a plurality of bone slice segments, with each of the bone slice segments

including a partial portion of the outer cortical bone wall and a partial portion of the

medullary canal; and

forming the spinal implant of claim 217 from one of the plurality of bone slice

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segments, with the recessed area of the first sidewall defined by the partial portion of the

medullary canal.

241. (New) The method of claim 240 further comprising forming the spinal

implant of claim 217 from each of the plurality of bone slice segments obtained from a

single bone slice.

242. (New) The method of claim 240 wherein the cutting of the bone slice along

the length of the medullary canal comprises dividing the bone slice into three bone slice

segments, with each of the three bone slice segments including a partial portion of the

outer cortical bone wall and a partial portion of the inner medullary canal.

243. (New) The method of claim 242 further comprising forming the spinal

implant of claim 217 from each of the three bone slice segments obtained from a single

bone slice.

244. (New) The method of claim 240 further comprising forming a cylindrical

bone dowel from one of the bone slice segments; and

forming the spinal implant of claim 217 from one of the remaining bone slice

segments.

245. (New) A method of forming a spinal implant, comprising:

providing a long bone having a diaphysis;

removing a cross-sectional bone slice from the diaphysis of the long bone, the

cross-sectional bone slice including an outer cortical bone wall surrounding an inner

medullary canal having a length;

cutting the bone slice along the length of the medullary canal and dividing the

bone slice into a plurality of bone slice segments, with each of the bone slice segments

including a partial portion of the outer cortical bone wall and a partial portion of the

medullary canal; and

forming the spinal implant of claim 230 from one of the plurality of bone slice

segments, with the recessed area of the first sidewall defined by the partial portion of the

medullary canal.

246. (New) The method of claim 245 further comprising forming the spinal

implant of claim 230 from each of the plurality of bone slice segments obtained from a

single bone slice.

247. (New) The method of claim 245 wherein the cutting of the bone slice along

the length of the medullary canal comprises dividing the bone slice into three bone slice

segments, with each of the three bone slice segments including a partial portion of the

outer cortical bone wall and a partial portion of the inner medullary canal.

248. (New) The method of claim 247 further comprising forming the spinal

implant of claim 230 from each of the three bone slice segments obtained from a single

bone slice.

249. (New) The method of claim 245 further comprising forming a cylindrical

bone dowel from one of the bone slice segments; and

forming the spinal implant of claim 230 from one of the remaining bone slice

segments.

250. (New) A method of forming a spinal implant, comprising:

providing a long bone having a diaphysis;

removing a cross-sectional bone slice from the diaphysis of the long bone, the

cross-sectional bone slice including an outer cortical bone wall surrounding an inner

medullary canal having a length;

cutting the bone slice along the length of the medullary canal and dividing the bone

slice into a plurality of bone slice segments, with each of the bone slice segments including a

partial portion of the outer cortical bone wall and a partial portion of the medullary canal; and

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elongate bone portion having a longitudinal axis and including:

a first end portion;

a second end portion arranged generally opposite the first end portion;

a first bone engaging surface;

a second bone engaging surface arranged generally opposite the first bone

engaging surface; and

a first sidewall extending between the first and second bone engaging surfaces

and including a recessed area disposed between the first and second end portions, the recessed

area defined by the partial portion of the medullary canal and defining a concave outer surface

extending along the longitudinal axis between the first and second end portions from the first

bone engaging surface to the second bone engaging surface.

251. (New) The method of claim 250 further comprising forming the elongate

bone portion from each of the plurality of bone slice segments obtained from a single bone

slice.

252. (New) The method of claim 250 wherein the cutting of the bone slice along

the length of the medullary canal comprises dividing the bone slice into three bone slice

segments, with each of the three bone slice segments including a partial portion of the

outer cortical bone wall and a partial portion of the inner medullary canal.

253. (New) The method of claim 252 further comprising forming the elongate

bone portion from each of the three bone slice segments obtained from a single bone slice.

254. (New) The method of claim 250 further comprising forming a cylindrical

bone dowel from one of the bone slice segments; and

forming the elongate bone portion from one of the remaining bone slice segments.

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255. (New) The method of claim 250 wherein the elongate bone portion has a

generally rectangular cross-section in a plane including the longitudinal axis.

256. (New) The method of claim 250 wherein each of the first and second bone

engaging surfaces is substantially planar.

257. (New) The method of claim 256 further comprising providing each of the first

and second bone engaging surfaces with a plurality of ridges or teeth.

258. (New) The method of claim 250 wherein the elongate bone portion further

includes a second sidewall arranged generally opposite the first sidewall relative to the

longitudinal axis, the second sidewall extending between the first and second bone engaging

surfaces and including a convex outer surface extending along the longitudinal axis between

the first and second end portions from the first bone engaging surface to the second bone

engaging surface; and

wherein the concave outer surface of the first sidewall extends generally parallel with

and is positioned opposite the convex outer surface of the second sidewall to provide the

elongate bone portion with an elongate crescent-shaped outer cross-section in a plane

including the longitudinal axis.

259. (New) The method of claim 250 wherein the elongate bone portion further

includes a second sidewall arranged generally opposite the first sidewall relative to the

longitudinal axis, the second sidewall extending between the first and second bone engaging

surfaces and including a substantially planar outer surface extending along the longitudinal

axis between the first and second end portions from the first bone engaging surface to the

second bone engaging surface; and

wherein the concave outer surface defined by the first sidewall is positioned opposite

the substantially planar outer surface of the second sidewall relative to the longitudinal axis.

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260. (New) The implant of claim 259 wherein the first sidewall includes:

a first substantially planar outer surface adjacent the first end portion and a second

substantially planar outer surface adjacent the second end portion, each of the first and second

substantially planar outer surfaces extending betweem the first and second bone engaging

surfaces; and

wherein the concave outer surface extends axially between the first and second

substantially planar outer surfaces.

261. (New) The method of claim 250 wherein the first and second bone engaging

surfaces are separated by a first height adjacent the first end portion and by a second height

adjacent the second end portion, wherein the first height is greater than the second height.

262. (New) The method of claim 250 wherein the elongate bone portion further

includes a first endwall extending between the first and second bone engaging surfaces,

wherein the first endwall includes one or more engagement features adapted to engage an

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implant holder.